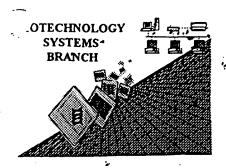
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09	94	1947
Source:	01	PE	
Date Processed by STIC:	09	18	2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 07/99/1997
ATTN: NEW RULES CASE	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO S
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
·	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences' (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3Misuse of n	in can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

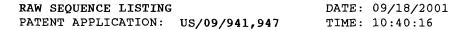
AMC/MH - Biotechnology Systems Branch - 08/21/2001

OIPE

RAW SEQUENCE LISTING DATE: 09/18/2001 PATENT APPLICATION: US/09/941,947 TIME: 10:40:16

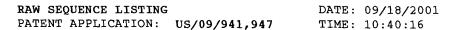
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Output Set: N:\CRF3\09182001\1941947.raw

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             Cheng, Qiong
      7
             DiCosimo, Deana J.
                                                                     Does Not Comply
      8
             Koffas, Mattheos
                                                                Coffected Diskette Needed
             Miller, Edward S. Jr.
             Odom, J. Martin
     10
                                                                     See Poor 6 of 7A
     11
             Picataggio, Steve
     12
             Rouviere, Pierre E.
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     20 <130> FILE REFERENCE: CL1903 US NA
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                                                                              180
     54 atcgatccta gcatagaaat catttgctat cgcggcggtt ataaaggcct gttgctgggc
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    56 gattettate cagtaacgge egaagtgegt aaaaaggegg gtgttetgea acgttttgge
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                                                                              420
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    64 gcagcattcc tggccagaaa taattacgga ctgaccgtca ttggtttacc taaaaccgtc
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                                                                              660
    70 cacgaagtga tgggccgtaa ctgcggctgg ctgaccgctg caaccgcgca ggaatatcgc
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    74 gtgcacgcgg tattcgttcc ggaaatggcg atcgacctgg aagccgaagc caagcgcctg
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    76 cgcgaagtga tggacaaagt cgattgcgtc aacatcttcg tttccgaagg tgccggcgtc
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    80 cacatcaaac tggatgcggt caaccctggt aaatggttcg gcgagcaatt cgcgcagatg
                                                                             1020
    82 ataggegegg aaaaaaccet ggtacaaaaa tegggataet tegecegtge ttetgettee
                                                                             1080
    84 aacgttgacg acatgcgttt gatcaaatcg tgcgccgact tggcggtcga gtgcgcgttc
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    86 cgccgcgagt ctggcgtgat cggtcacgac gaagacaacg gcaacgtgtt gcgtgcgatc
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    88 gagtttccgc gcatcaaggg cggcaaaccg ttcaatatcg acaccgactg gttcaatagc
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Output Set: N:\CRF3\09182001\I941947.raw

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	His	Trp	Phe	Phe	Leu	Asn	Phe	Asn	Phe	Tyr	Thr	Leu	Met	Asn	Lys	Pro
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113	Lys	Lys	Val	Ala	Ile	Leu	Thr	Ala	Gly	Gly	Leu	Ala	Pro	Cys	Leu	Asn
114			35					40					45			
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129	Gln	Arg	Phe	Gly	Gly	Ser	Val	Ile	Gly	Asn	Ser	Arg	Val	Lys	Leu	Thr
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134			115					120					125	_		_
137	Pro	Gln	Lys	Val	Ala	Ala	Asp	Gln	Leu	Val	Lys	Asp	Gly	Val	Asp	Ile
138		130					135				_	140	_		_	
141	Leu	His	Thr	Ile	Gly	Gly	Asp	Asp	Thr	Asn	Thr	Ala	Ala	Ala	Asp	Leu
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145	Ala	Ala	Phe	Leu	Ala	Arg	Asn	Asn	Tvr	Glv	Leu	Thr	Val.	Ile	Glv	Leu
146					165	5			-1-	170					175	
	Pro	Lvs	Thr	Val		Asn	Asp	Val	Phe		Ile	Lvs	Gln	Ser		Glv
150				180				· -	185			-1-		190		1
	Ala	מיד	Thr		Ala	Glu	Gln	Glv		Arσ	Tvr	Phe	Met		Val	۷al
154			195					200		9	~1~		205			
	Ala	G111		Asn	Δla	Asn	Pro		Me+	T.e.ii	Tle	Va l		Glu	Val	Met
158		210	,,,,,,,		111.0	11011	215	**** 9	1100	пси	110	220	1112	Olu	vai	1100
	Glv		Δsn	Cvs	Glv	Trp		Thr	Δla	Δla	Thr		Gln	Glu	ጥህጕ	Δτα
	225	*** 9	21011	CID	0.1	230	пси	1111	nia	niu	235	niu	0111	GIU	TYT	240
		T.e.u	T.e.ii	A en) Ara	Ala	Glu	mrn.	T.ell	Pro		T.an	G1 v	Len	Thr	
166	כעב	пси	шси	пър	245	пта	Giu	пр	пец	250	GIU	пси	Gry	пец	255	пту
	Glu	Ser	Фυν	Glu		His	λ1 =	17 a 1	Dho		Dro	C111	Mot	λΙο		λαη
170	Giu	361	TYT	260	Val	nis	AIA	vaı	265	val	FIU	Gru	met	270	TTE	АБР
	Ι.ρ.1	Glu	λl a		ת 1 ת	Lys	λνα	Tan		Clu	37 n 1	Mat	7 an		Val	λαν
174	пси	Gru	275	Giu	Ата	цуб	AIG	280	ALG	GIU	vaı	Mec	285	цуѕ	val	ASP
	Ctrc	17 - 1		T10	Dho	Val	Con		C1	71-	C1	17a l		7 7 -	т1.	17-1
178	Cys	290	MDII	116	Pne	val	295	GIU	GIA	Ala	GTÀ	300	GIU	Ald	116	vai
	λl-		Mot	Cln	7 l n	T ***		C1 n	C1	1701	Dwa		X a m	71-	Dha	C1
		GIU	Met	GIII	нта	Lys	GIY	GIII	GIU	Val		Arg	ASP	Ald	Pne	
	305	T1_	T	T	3	310	**- 1	3	D	a 1	315	m	nl	~ 1	a 1	320
	HIS	ite	гÀг	ьeu		Ala	vaı	ASN	Pro		гàг	Trp	Pne	GTA		GIn
186	D1		a 3	37. 1	325	-1		 7	_	330	_			_	335	
	rne	Ala	GLn		тте	Gly	Ala	GLu		Thr	Leu	Val	GIn		Ser	GŢĀ
190	·			340		_		_	345		_	_		350	_	
	Tyr	Phe		Arg	Ala	Ser	Ala		Asn	Val	Asp	Asp		Arg	Leu	Ile
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						ийтог	nona	s 16a	a								
			_	NCE:			. .		~+.	a = + ~.		+	~~~~		+ +		C 0
																ccggtc ggtggc	60 120
																cgtatc	180
																accttg	240
																atcta	300
																agcgag	360
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251	<210)> S	EQ II	ON C	: 4												
				H: 22	L2												
			YPE:														
				ISM:		ıylor	nonas	s 16a	a								
				NCE:		**- 7	m1-	~1		01	1				_	_	
263		ASN	Thr	мет	ser 5	val	Thr	me	гля		vaı	мет	Thr	Tnr	Ser	Pro	
		Ma+	Dro	Va I	_	Wa I	т1 о	λan	uic	10	C1.,	Uic	7 1 a	17 n 1	15 Pro	Ton	
268	vai	Hec	rio	20	Mec	Val	116	ASII	25	цец	Giu	птъ	Ата	30	PIO	Leu	
	Ala	Ara	Ala		Val	Asp	Glv	Glv		T.vs	Val	T.e.u	Glu	-	Thr	T.e.11	
272		9	35	204		p	011	40	Lea	270	, u i	шец	45	110	1111	Бей	
	Arg	Thr		Val	Ala	Leu	Glu	-	Ile	Arq	Arq	Ile		Ala	Glu	Val	
276	-	50					55	-			_	60	_				
279	Pro	Asp	Ala	Ile	Val	Gly	Ala	Gly	Thr	Ile	Ile	Asn	Pro	His	Thr	Leu	
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	Pro	Gly		Ile	Thr	Pro	Ser		Val	Met	Arg	Leu		Glu	Lys	Gly	
292			115					120					125				
/ U h	т3 -	3	7 7	34. 1	T -	T > 1	77.1	D .	3 3	a 3			~ 7	~ ~		_	
296	Ile	Asn 130	Ala	Met	Lys	Phe	Phe 135	Pro	Ala	Glu	Ala	Ala 140	Gly	Gly	Ile	Pro	



Input Set : A:\CL1903 US NA Seq Listing.txt
Output Set: N:\CRF3\09182001\I941947.raw

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	gccggcttgg tcggcccgga				1320									
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	cccggggcgg caatcgatcc				1500									
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/941,947
DATE: 09/18/2001
TIME: 10:40:16

Input Set : A:\CL1903 US NA Seq Listing.txt
Output Set: N:\CRF3\09182001\I941947.raw

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	Glu	Val	Arg 35		Tyr	Leu	Thr	His 40	Thr	Val	Ser	Ile	Ser 45	Gly	Gly	His	
	Phe	Ala 50	Ala	Gly	Leu	Gly	Thr 55	Val	Glu	Leu	Thr	Val 60	Ala	Leu	His	Tyr	
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437 438	Ala	Leu 130	Gly	Met	Ala	Ile	Ala 135	Ser	Gln	Leu	Arg	Gly 140	Glu	Asp	Lys	Lys	
	Met 145	Val	Ala	Ile	Ile	Gly 150	Asp	Gly	Ser	Ile	Thr 155	Gly	Gly	Met	Ala	Tyr 160	
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466					245					250		Pro		•	255		
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474			275					280				Gly	285				
478		290					295					Val 300					
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486					325					330		Met			335		
490				340					345			Glu		350			
494			355			_		360		_	_	Phe	365				
497	Ala	Glu	Gln	His	Ala	Val	Thr	Leu	Ala	Ala	Gly	Gln	Ala	Cys	Gln	Gly	

6 of 7A <210> SEQ ID NO 41 <211> LENGTH: 38 Errored <212> TYPE: DNA <213> ORGANISM: Artificial Sequence <220> FEATURE: <223> OTHER INFORMATION: <400> SEQUENCE: 41 agcagctagc ggaggaataa accatgagcg catttctc 38 <210> SEQ ID NO 42 <211> LENGTH: 26 <212> TYPE: DNA Errored <213> ORGANISM: Trtificial Sequence <220> FEATURE: <223> OTHER INFORMATION: : <400> SEQUENCE: 42 gactagtcac gacctgctcg aacgac 26

Errored: When the O.R.G. ANISM field is "Artificial Bequence" an explanation is mandatory in field 223.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/941,947

DATE: 09/18/2001 TIME: 10:40:17

Input Set : A:\CL1903 US NA Seq Listing.txt
Output Set: N:\CRF3\09182001\1941947.raw

L:23 M:270 C: Current Application Number differs, Replaced Current Application No

L:23 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:3057 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:41

L:3061 M:258 W: Mandatory Feature missing, <220> FEATURE:

 $L:3061\ M:258\ W:$ Mandatory Feature missing, <223> OTHER INFORMATION:

L:3071 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:42

L:3075 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:3075 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: